

## FREQUENTLY ASKED QUESTIONS AND ANSWERS

### > How big are the wind turbines?

The turbines for the Konikablo Wind Farm may have a hub height of 131 m and blade length of around 70 m, resulting in a total height of more than 200 m (650 ft). Due to the continuous technical development, these values may change.

### > Are you buying or leasing our land?

The project is leasing the land from the families and clans for thirty years and makes annual payments for each turbine. After thirty years the land is restored and fully returns to the original owners.

### > Are there any restrictions to farming within the wind farm?

Farming can be continued being done without major restrictions within the entire area of the wind farm, except on the maintenance platforms, roads and other wind farm infrastructure. This means that more than 95% of the land can still be used.

### > Can we build houses close to the turbines?

Wind turbines will only be located in agricultural zoned land and not in residential areas.

For new buildings it is important that they don't disturb the wind flow. Therefore industrial buildings and barns within a 200 m radius of a wind turbine shall not be taller than 5 m. Within a radius of 500 m such buildings shall not exceed a height of 10 m. In terms of residential buildings, we also need to comply with EPAs noise regulation, which requires a distance of about 500 m.

### > What is the community going to get from this project?

The Konikablo Wind Farm creates benefits for the surrounding communities in several ways. These may include amongst others:

- > Lease payments to the owners of the land that will be used for the project.
- > A significant number of jobs during construction and permanent jobs during operation.
- > Community benefit projects to be developed in consultation with local community and stakeholders. For example education programs or investment in improved farming techniques to increase production and income from farming.
- > Improvement of access roads

## INTERVIEW WITH THOMAS BARKMANN, ENERCON

### > What is your role in the Konikablo Wind Farm project?

In ENERCON GmbH I am the Regional Head of Sales Italy and Africa. For the Konikablo Wind Farm I act as a trade representative for ENERCON GmbH and track the progress of the project as ENERCON is the investor and operator of the project.

### > What know-how does the company ENERCON GmbH have in the field of wind energy?

ENERCON's founder, Mr. Aloys Wobben, is one of the pioneers in the wind business. He invented several new technologies and holds dozens of patents. The ENERCON company was set up in 1984, since then we have produced and installed more than 29,000 wind energy turbines all over the world with more than 50 GW installed capacity.



### > Do you have experience in other African countries?

First lighthouse projects beside Ghana are planned in the following countries: Egypt, Tunisia, Morocco, Tanzania, Kenya and South Africa. These markets will be constantly developed and other African countries will be observed as possible future markets.

### > What was your impression when you came the first time to Ghana?

Ghana has a lot of opportunities and possibilities. With some effort of everyone, a leading role in the West African renewable energy market can be taken over.

## CONTACT

NEK (Ghana) Ltd.  
Water Road, Kanda Highway Extension, P.O. Box KA 16058  
Accra, Ghana  
Mobile: +233 20 856 5757, Fax: +233 30 222 3175  
[www.upwindkonikablo.com](http://www.upwindkonikablo.com)  
[info@upwindkonikablo.com](mailto:info@upwindkonikablo.com)

## 200 MW KONIKABLO WIND FARM GREAT NINGO PROJECT NEWSLETTER



ISSUE 2 – May 2019

## MULTIPLE STEPS TO A FUTURE WITH CLEAN ENERGY

Since our last newsletter in March this year, a lot of things have happened. The development of the Konikablo Wind Farm has made some important progress.

Two meteorological masts, each 125m (410ft) tall, have been installed to measure the exact wind conditions at the site. A video team accompanied the installation. The video can be found on our new project website. Furthermore, the whole project area has been surveyed with a drone to get detailed aerial images. The specialists of the Ghana Wildlife Society continue monitoring the activities of the birds in the area of the projected wind farm. The next steps are already planned, a geotechnical survey will bring the situation below the ground to daylight.

But also outside of the project area, a lot of things are happening. Upwind Konikablo financially supports the construction of a 3-unit classroom block of the Hearts of the Father Outreach Orphanage. The opening of this building will be celebrated on Sunday the 9<sup>th</sup> of June.

It is still a long way till the start of operation of the wind farm, but the many small steps will take us continuously to a future with clean and renewable energy.

## UPCOMING NEWS AND EVENTS

- > Preliminary geological survey at site
- > Opening of orphanage 3-unit classroom block at 9<sup>th</sup> June 2019
- > Community visits to present the project

## DRONE SURVEY

After having carried out a comprehensive drone survey for our wind farms already in 2014, now the time has come to update this survey for Konikablo.

The whole area, on which our wind turbines will be installed, was recorded with multiple drone flights by our engineers.

Our drone, which is equipped with a high resolution photo and video camera, carried out around 70 flights, each of 30 - 40 minutes duration, and shot thousands of high resolution pictures. This data will allow us to refine the existing digital elevation model but will also deliver valuable additional information on local agricultural land use, possible restriction areas as well as on water courses and flood areas.



NEK employee starting the drone in the field

## KONIKABLO PROJECT WEBPAGE ONLINE

Right before Easter, the Konikablo Project website went online. The page contains all relevant information, news, pictures and videos of the project.

Please have a look at:  
[www.upwindkonikablo.com](http://www.upwindkonikablo.com)



## INSTALLATION OF WIND MEASURING MASTS



In addition to the wind measurements that we have been carrying out for years on a 60 m tall measuring mast near the project area of Konikablo, we have decided to carry out a further measuring campaign for reasons of the bankability of the project.

Therefore, two additional 125 m (410 ft) tall wind measuring masts were installed at the beginning of March 2019 on the site.

The installation was done by a specialized team working closely with NEK technicians. The sensors on the masts are measuring the wind conditions on 5 levels with redundantly designed instruments and transmit the wind data daily to our branch office in Switzerland, where they are checked and evaluated.

A camera team accompanied the installation. Their movie can be found on our website or directly at YouTube.



Installation of Meteorological Masts - Konikablo Wind Farm - Ghana  
[www.youtube.com/watch?v=WzycImGkbhc](https://www.youtube.com/watch?v=WzycImGkbhc)

## BIRD MONITORING IN PROJECT AREA

In order to study the activities of birds in the project area and its neighbourhood, NEK has contracted the Ghana Wildlife Society. They have begun a detailed monitoring program already last July. The purpose of the study is to ensure that no negative impact on bird species is given during construction and operation of the Konikablo Wind Farm. The monitoring will end after one year since it started, meaning in July/August of this year. You can therefore often see personnel from the Ghana Wildlife Society, partly accompanied by our Community Liaison Officers on and around the Konikablo site.



## SUPPORT FOR ORPHANAGE 3-UNIT CLASSROOM

ENERCON GmbH and NEK financially support the construction of the 3-unit classroom block for Hearts of the Father Outreach. The building was initiated by the Ningo-Prampram District Chief Executive Hon. Jonathan Teye Doku beginning of this year. The opening is planned for 9<sup>th</sup> June 2019.

